

DH-SD52C225U-HNI

2MP 25x Starlight PTZ Network Camera



- · 1/2.8" 2Megapixel STARVIS™ CMOS
- · Powerful 25x optical zoom
- · H.265 Encoding
- Starlight technology
- · Max. 50/60fps@1080P
- · Auto-tracking and IVS
- · Support PoE+
- · IK10











System Overview

Featuring powerful optical zoom and accurate pan/tilt/zoom performance, this camera can provide large monitoring range and great detail. The camera has very excellent low light performance due to adopting the latest starlight technology. The camera is equipped with smooth control, high quality image and good protection, which make it can meet most of the requirements of video surveillance applications.

Functions

Starlight Technology

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.002lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

Wide Dynamic Range

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, True WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Auto-tracking

This feature controls the pan/tilt/zoom actions of the camera to automatically track an object in motion and to keep it in the scene. The tracking action can be triggered manually or automatically by defined rules. Once a rule is triggered, the camera can zoom in and track the defined target automatically.

Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

PFA Technology

PFA technology has innovatively introduced new methods of judgment to ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms. PFA ensures clarity of the image throughout the process of zooming and shortens focus time. The realization of PFA technology substantially improves user experience and increases product value.

Environmental

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from -30°C $^{\sim}$ 60°C (-22°F $^{\sim}$ +140°F) with 95% humidity. The camera complies with the IK10 Vandal Resistance impact rating making it capable of withstanding the equivalent of 55 kg (120 lbs) of force.

Protection

The camera allows for $\pm 10\%$ input voltage tolerance, suitable for the unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning.

Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) and PSIA (Physical Security Interoperability Alliance) specifications, ensuring interoperability between network video products regardless of manufacturer.



DH-SD

Support

Detection, Heat Map

Tripwire, Intrusion, Abandoned/Missing, Face

Protocol

IVS

Intelligence

Auto Tracking

Video **Technical Specification** H.265+/H.265/H.264+/H.264 Compression Camera 1/2.8" STARVIS™ CMOS Streaming Capability 3 Streams Image Sensor 1080P(1920×1080)/1.3M(1280×960)/720P(1280× Effective Pixels 1920(H) x 1080(V), 2 Megapixels Resolution 720)/D1(704×576/704×480)/CIF(352×288/352×240) RAM/ROM 1024M/128M Main stream: 1080P/1.3M/720P(1~50/60fps) Scanning System Progressive Sub stream1: D1/CIF(1 ~ 25/30fps) Frame Rate 1/1s~1/30,000s **Electronic Shutter Speed** Sub stream2: 1080P/1.3M/720P/D1/CIF (1~25/30fps) Minimum Illumination Color: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6 Bit Rate Control CBR/VBR S/N Ratio Bit Rate H.265/H.264: 448K ~ 8192Kbps IR Distance N/A Day/Night Auto(ICR) / Color / B/W IR On/Off Control N/A BLC / HLC / WDR (120dB) **Backlight Compensation** IR LEDs N/A White Balance Auto, ATW, Indoor, Outdoor, Manual Lens Gain Control Auto / Manual Focal Length 4.8mm~120mm Noise Reduction Ultra DNR (2D/3D) Max. Aperture F1.6 ~ F4.4 Motion Detection Support H: 59.2° ~ 2.4° Angle of View Region of Interest Support Optical Zoom 25x **Electronic Image Stabilization** Support (EIS) Focus Control Auto/Manua Defog Support Close Focus Distance 100mm~ 1000mm Digital Zoom 16x **DORI Distance** *Note: The DORI distance is a "general proximity" of distance which makes it easy to Flip 180° pinpoint the right camera for your needs. The DORI distance is calculated based on Privacy Masking Up to 24 areas sensor specification and lab test result according to EN 62676-4 which defines the criteria for Detect, Observe, Recognize and Identify respectively. Audio Identify Detect Observe Recognize G.711a/G.711Mu/AAC/G.722 / G.726/G.729/ Compression 1613m(5292ft) 646m(2119ft) 323m(1060ft) 161m(528ft) MPEG2-L2 PTZ Network Pan/Tilt Range Pan: 0° ~ 360° endless; Tilt: 0° ~ 90°, auto flip 180° Ethernet RJ-45 (10Base-T/100Base-TX) IPv4/IPv6,HTTP,HTTPS,SSL,TCP/IP, UDP,UPnP, Manual Control Speed Pan: 0.1° ~350° /s; Tilt: 0.1° ~250° /s ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, Protocol DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1x Pan: 500° /s; Tilt: 500° /s Preset Speed Interoperability ONVIF, PSIA, CGI Presets 300 Streaming Method Unicast / Multicast PTZ Mode 5 Pattern, 8 Tour, Auto Pan ,Auto Scan Max. User Access 20 users Speed Setup Human-oriented focal Length/ speed adaptation NAS (Network Attached Storage), Local PC for Auto restore to previous PTZ and lens status after Edge Storage Power up Action instant recording, Micro SD card 128GB power failure Web Viewer IE, Chrome, Firefox, Safari Activate Preset/ Scan/ Tour/ Pattern if there is no Idle Motion command in the specified period Management Software Smart PSS, DSS

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Smart Phone

Certifications

Certifications

IOS, Android

CE: EN55032/EN55024/EN50130-4

FCC: Part15 subpartB, ANSI C63.4-2014

UL: UL60950-1+CAN/CSA C22.2,No.60950-1

Interface

Video Interface	N/A
RS485	N/A
Audio I/O	1/1
Alarm I/O	2/1

Electrical

Power Supply	AC24V/1.5A(±10%), PoE+(802.3at)
Power Consumption	13W

Environmental

Operating Conditions	-30°C $^{\sim}$ 60°C (-22°F $^{\sim}$ +140°F) / Less than 95% RH
Ingress Protection	N/A
Vandal Resistance	IK10

Construction

Casing	Metal
Dimensions	Ф198(mm) x 177(mm)
Net Weight	2.2kg(4.85lb)
Gross Weight	3.7kg(8.16lb)

Ordering Information				
Туре	Part Number	Description		
	DH-SD52C225U-HNI	2MP 25x Starlight PTZ Network Camera, WDR, PAL		
	DH-SD52C225UN-HNI	2MP 25x Starlight PTZ Network Camera, WDR, NTSC		
	SD52C225U-HNI	2MP 25x Starlight PTZ Network Camera, WDR, PAL		
	SD52C225UN-HNI	2MP 25x Starlight PTZ Network Camera, WDR, NTSC		
Accessories	AC24V/1.5A	Power Adapter		

Accessories

Included:



AC24V/1.5A Power Adapter

Dimensions (mm)



